

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims, in the application:

Listing of Claims:

1. (Currently amended) A flexible ocular device for implantation into the eye formed of a biocompatible elastomeric material, foldable to a diameter of 1.5 mm or less, comprising a fluid drainage tube having at one end a foldable plate adapted to be deployed within a suprachoroidal space and to locate the device on the inner surface of the sclera in the suprachoroidal space formed by cyclodialysis, wherein said drainage tube has an internal lumen that opens opening into the suprachoroidal space and onto the plate near one end and wherein the internal lumen opens into opening to the anterior chamber when implanted into the eye at its other end, so as to provide aqueous pressure regulation.

2. (Previously presented) The device according to claim 1, wherein said fluid drainage tube has a diameter selected to provide predetermined resistance to aqueous flow.

3. (Previously presented) The device according to claim 2, wherein said predetermined resistance is at a pressure of 10 mm Hg or less.

4. (Previously presented) The device according to claim 1, wherein said tube contains a valve so as to regulate pressure of the aqueous at a predetermined level.

5. (Previously presented) The device according to claim 4, wherein said predetermined level is a pressure of 10 mm Hg or less.

6. (Previously presented) The device according to claim 1, wherein said plate has a diameter from 0.05 to 6 mm and a thickness from 12.5 μ to 250 μ .

7. (Previously presented) The device according to claim 1, wherein said tube has a length from 1 mm to 4 mm.

8. (Previously presented) The device according to claim 1, wherein said tube comprises an outer diameter of 400-1000 μ and an inner diameter from 50 to 500 μ .

9. (Previously presented) The device according to claim 4, wherein said valve comprises a slit valve.

10. (Withdrawn) A method for treating glaucoma which comprises: providing a flexible ocular device formed of a biocompatible elastomeric material foldable to a diameter of 1.5 mm or less, comprising a fluid drainage tube having at one end a foldable plate adapted to locate the device on the inner surface of the sclera and at its other end being open so as to allow fluid communication through said tube; forming a small self-sealing incision at the juncture of the cornea and sclera of the eye opening into the anterior chamber; filling the anterior chamber with a viscoelastic substance; introducing the foldable ocular device into a suprachoroidal space formed by cyclodialysis via a hollow cannula, wherein said plate locates the device on the inner surface of the sclera in the suprachoroidal space, and said drainage tube is located in the anterior chamber of the eye so as to provide aqueous humor pressure regulation; and thereafter removing said cannula and viscoelastic material from the eye.

11. (Withdrawn) The method according to claim 10, wherein said fluid drainage tube has a diameter selected to provide predetermined resistance to aqueous flow.

12. (Withdrawn) The method according to claim 10, wherein said predetermined resistance is at a pressure of 10 mm Hg or less.

13. (Withdrawn) The method according to claim 10, wherein said tube contains a valve so as to regulate pressure of the aqueous at a predetermined level.

14. (Withdrawn) The method according to claim 13, wherein said predetermined level is a pressure of 10 mm Hg or less.

15. (Withdrawn) The device according to claim 10, wherein said plate has a diameter from 0.05 to 6 mm and a thickness from 12.5 μ to 250 μ .

16. (Withdrawn) The method according to claim 10, wherein said tube has a length from 1 mm to 4 mm.

17. (Withdrawn) The method according to claim 10, wherein said tube comprises an outer diameter of 400-1000 μ and an inner diameter from 50 to 500 μ .

18. (Withdrawn) The method according to claim 13, wherein said valve comprises a slit valve.

19-21. (Canceled)

22. (Currently amended) An ocular device for implantation into the eye, comprising:

a fluid drainage tube having at a first end an anchor member adapted to be deployed within a suprachoroidal space on an inner surface of the sclera so as to locate the first end of the device on an inner surface of the sclera, the fluid drainage tube having an internal lumen wherein the a first end of the lumen of the drainage tube opens into the suprachoroidal space and a second end of the lumen of the drainage tube

opens into the anterior chamber when implanted into the eye, so as to provide aqueous pressure regulation.

23. (Previously presented) The device of claim 22, wherein the anchor member is a disc.

24. (Previously presented) The device of claim 22, wherein the device is formed of a biocompatible elastomeric material.

25. (Previously presented) The device of claim 22, wherein the device is foldable to a diameter of 1.5 mm or less.

26. (Previously presented) The device of claim 22, further comprising a valve coupled to the drainage tube.

27. (New) A flexible ocular device for implantation into the eye formed of a biocompatible elastomeric material, foldable to a diameter of 1.5 mm or less, comprising a fluid drainage tube having at one end a foldable plate adapted to be deployed within a suprachoroidal space and to locate the device on the inner surface of the sclera in the suprachoroidal space formed by cyclodialysis, said drainage tube opening into the suprachoroidal space and onto the plate near one end and opening to the anterior chamber when implanted into the eye at its other end, so as to provide aqueous pressure regulation.

28. (New) An ocular device for implantation into the eye, comprising: a fluid drainage tube having at a first end an anchor member adapted to be deployed within a suprachoroidal space on an inner surface of the sclera so as to locate the first end of the device on an inner surface of the sclera, wherein the first end of the drainage tube opens into the suprachoroidal space and a second end of the drainage

Applicant : Minas Theodore Coroneo
Serial No. : 10/712,277
Filed : November 14, 2003
Page : 6 of 9

Attorney's Docket No.: 21800-005001

tube opens into the anterior chamber when implanted into the eye, so as to provide aqueous pressure regulation.